

ABSTRACTHALL SENSOR AND METHOD FOR OPERATING IT

The invention relates to a Hall sensor on a semiconductor substrate (1), in which a Hall plate (2) is formed from a zone (33, 32) of one conduction type; in which a zone (33, 32) adjoining the Hall plate (2), which zone (33, 32) is separated from said Hall plate (2) by a space-charge zone (41), of the other conduction type is provided; and in which the Hall plate comprises contacts (311, 312, 313, 314, 321, 322, 323, 324) for supplying a control current (IS), while the zone of the second ~~((Leistungstyp))~~ conduction type comprises contacts (311, 312, 313, 314, 321, 322, 323, 324) for supplying a compensation current (IK). The Hall sensor is advantageous in that the offset is reduced.

Figure 1